this field he was responsible for all health physics work at Los Alamos and, in addition, served as a member of the Radiological Safety Group and as Advisor to the Test Director at all weapon tests in Nevada and at the Pacific Proving Ground since 1951. In recent years, DR. WHITE was engaged principally in research on developing new methods of forecasting fallout following atomic and hydrogen bomb detonations.

DR. WHITE is survived by his wife and two daughters. He was a member of the American Physical Society, Radiation Research Society, and of the AMERICAN INDUSTRIAL HYGIENE ASSOCIATION. He was the Program Arranger for the Radiation Section at the annual meeting of the AMERICAN INDUSTRIAL HYGIENE ASSOCIATION in the spring of 1955.

J. H. HOLDEN, Chief Chemist at the Pittsburgh Testing Laboratory, died October 2, 1955. Born in Amherst, Massachusetts, the son of a minister, MR. HOLDEN received his elementary and high school education there; he attended Roxbury Latin School and entered Tufts College at Medford, Massachusetts, in 1912. After two years study at Tufts, MR. HOLDEN resumed his study at the University of Kansas, where he was awarded his degree in Chemical Engineering in 1917.

He served as a Sergeant in the Chemical Warfare Service during World War I. At the completion of his army career, MR. HOLDEN was employed with Tulsa Laboratories for a couple of years before returning to Massachusetts for graduate study at Massachusetts Institute of Technology. He joined the Pittsburgh Testing Laboratory in 1923. Mr. W. F. Walters, who has been assistant to MR. HOLDEN for two years is assuming the duties of industrial hygiene with Pittsburgh Testing Laboratory. MR. HOLDEN was Secretary-Treasurer of the Pittsburgh section of the AMERICAN INDUSTRIAL HYGIENE ASSOCIATION in 1947 and President in 1949.

Index to Volume 16

Subject and author entries are made for all technical articles. Obituaries are indexed under this heading.

A

Abstracts, From Foreign Exchange Journals, Mar. p. 77, June, p. 152, Sep. p. 244, Dec. p. 338
Acetaldehyde, Hygienic Guide, Sep. p. 237
Air Pollution:
A Method for Determining Sources of Particulate Atmospheric Carbon, Dec. p. 293
Air Pollution—Some Epidemiologic Aspects, Sep. p. 198
Atmospheric Pollution Study of a Non-Industrial Area, June, p. 141
Basic Problems in the Detection of Microbiological Air Pollution, June, p. 113
Pitfalls in Using Maximum Allowable Concentrations in Air Pollution, Sep. p. 230
Alpha Hazard Monitoring Instruments, Mar. p. 60
Amyl Acetate, Hygienic Guide, Sep. p. 241
Aniline, Hygienic Guide, Dec. p. 331
Arnold, James: A Method for Determining Sources of Particulate Atmospheric Carbon, Dec. p. 293
Atchley, R. W.: The Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187

B

Benzol, Hygienic Guide, Dec. p. 333
Blatz, Hanson: Potential Radiation Hazards in the Use of X-ray Diffraction Equipment, June, p. 108
Bloomfield, Bernard, D.: Atmospheric Pollution Study of a Non-Industrial Area, June, p. 141
Bloomfield, John J.: Training Industrial Hygiene Chemists in Latin America, Mar. p. 64
Book Reviews:
Dust is Dangerous, By C. N. Davies, Sep. p. 244
Industrial Dust, Second Edition, By Philip Drinker and Theodore Hatch, Mar. p. 77
Butyl Alcohol, Hygienic Guide, Sep. p. 240

C

Cadmium, Hygienic Guide, Sep. p.238
Campbell, Evan E.: The Determination of Mercury in Urine, Dec. p. 275
Cappel, J. W.: The Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187
Carbon Monoxide Concentrations—A Comparison of Detroit and Los Angeles, Sep. p. 225
Carbon Tetrachloride, Hygienic Guide, Sep. p. 239
Castrop, V. J.: A Comparison of Carbon Monoxide Concentrations in Detroit and Los Angeles, Sep. p. 225
Chapman, Harlow: Dust Counting Reliability, Sep. p. 201
Clayton, George: A Method for Determining Sources of Particulate Atmospheric Carbon, Dec. p. 293
Cleveland, F. P.: The Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187
Coleman, Allan L.: Threshold Limits —A Panel Discussion, Organic Vapors, Mar. p. 28
Collection Efficiency of Air Cleaning and Air Sampling Filter Media, June, p. 123
Comparative Toxicity of Boranes, Dec. p. 280
Constant Flow Suction Unit for Aerosol Sampling Work, June, p. 134
Control of Occupational Health Hazards—Concepts of Engineering Application, June, p. 131
Cope, R. W.: Determination of Small Quantities of Isophorone in Air, Mar. p. 55
Czerwonka, Lawrence J.: Sampling and Analysis of Industrial Process Dust, Dec. p. 283

D

Denham, R. T.: The Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187
Determination of Acrolein in the Presence of Other Aldehydes, Sep. p. 221
Determination of Ethylene Oxide in Air—Experience in the Use of Lubatti's Method, Mar. p. 52
Determination of Fluoride in Urine, Sep. p. 215
Determination of Mercury in Urine, Dec. p. 275
Detwiler, C. G.: Collection Efficiency of Air Cleaning and Air Sampling Filter Media, June, p. 123
Dust Counting Reliability, Sep. p. 201

F

Fanney, Julius: A Unique Wet Collector for Lightweight Aggregate Dusts, Dec. p. 301

Fitzgerald, J. J.: Collection Efficiency of Air Cleaning and Air Sampling Filter Media, June, p. 123
Formaldehyde, Hygienic Guide, Dec. p. 336

G

Gafafer, W. M., D. Sc.: Air Pollution—Some Epidemiologic Aspects, Sep. p. 198
Gardner, Dwight E.: The Determination of Fluoride in Urine, Sep. p. 215
Glorig, Aram, M. D.: The Industrial Hygienist and Ear Protection, Mar. p. 40
Goetz, Alexander, Ph. D.: Basic Problems in the Detection of Microbiological Air Pollution, June, p. 113
Graul, Robert J.: The Determination of Acrolein in the Presence of Other Aldehydes, Sep. p. 221

H

Hatch, Theodore, Threshold Limits—A Panel Discussion, Permissible Dustiness, Mar. p. 30
Head, Billye Marie: The Determination of Mercury in Urine, Dec. p. 275
Hendricks, Van: President's Page, June, p. 151, Sep. p. 243, Dec. p. 330
Holaday, Duncan, A.: Alpha Hazard Monitoring Instruments, Mar. p. 60
Hollingsworth, R. L.: Determination of Ethylene Oxide in Air-Experience in the Use of Lubatti's Method, Mar. p. 52
Hydrogen Sulfide, Hygienic Guide, Dec. p. 335
Hygienic Guide Series:
Acetaldehyde, Sep. p. 237
Amyl Acetate, Sep. p. 241
Aniline, Dec. p. 331
Benzene, Dec. p. 333
Butyl Alcohol, Sep. p. 240
Cadmium, Sep. p. 238
Carbon Tetrachloride, Sep. p. 239
Formaldehyde, Dec. p. 336
Hydrogen Sulfide, Dec. p. 335
Sulfur Dioxide, Dec. p. 332

I

Industrial Dusts—An X-ray Diffraction Method for Determination of Origin, Mar. p. 68
Industrial Hygiene Program—For a Benzene Extraction Plant in a Petroleum Refinery, Mar. p. 46
Isophorone, Determination of Small Quantities in Air, Mar. p. 55

K

Kacy, H. W., Jr.: Determination of Small Quantities of Isophorone in Air, Mar. p. 55
Kumler, Kay: A Rapid Method for the Spectrochemical Analysis of Lead in Blood, Dec. p. 296

L

Landry, A. S.: Training Industrial Hygiene Chemists in Latin America, Mar. p. 64
Larson, E. E.: The Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187
Levinskas, George, J., Ph. D.: Comparative Toxicity of Borances, Dec. p. 280

M

Mallette, Fred: Problems in the Skin Testing of Industrial Compounds—Development of Polyvalent Sensitivity, Dec. p. 324
McAlduff, H. J.: The Sale of Uranium-Contaminated Scrap Carbon Steel to Commercial Channels, Mar. p. 73
McLaughlin, J. E., Jr.: Potential Radiation Hazards in the Use of X-ray Diffraction Equipment, June, p. 108
Meyer, Alvin F., Jr., Lt. Col., USAF, (MSC):
Emergency Radiation Exposure Control—Development of Criteria, Sep. p. 210
The Control of Occupational Health Hazards—Concepts of Engineering Application, June p. 131
Morgan, Karl, Ph. D.: Problems Associated With the Application of External and Internal Radiation Exposure Limits, Dec. p. 307
Motor-Driven Syringes for Micro-Metering of Gases, June, p. 121

O

Obituaries:
Herndon, Henry Taylor, Sep. p. 245
Holden, J. H., Dec. p. 340
Peterson, Carl, M. D., Dec. p. 340
White, Thomas Nash, Dec. p. 340

P

Patty, Frank A.:
A Comparison of Carbon Monoxide Concentrations in Detroit and Los Angeles, Sep. p. 225
A Method for Determining Sources of Particulate Atmospheric Carbon, Dec. p. 293

R

Radiation:
Emergency Radiation Exposure Control—Development of Criteria. Sep. p. 210
Potential Radiation Hazards in the Use of X-ray Diffraction Equipment, June, p. 108
Problems Associated With the Application of External and Internal Radiation Exposure Limits, Dec. p. 307
Rapid Method for the Spectrochemical Analysis of Lead in Blood, Dec. p. 296
Roberts, Wesley J.: The Determination of Acrolein in the Presence of Other Aldehydes, Sep. p. 221
Ruhf, Russell: Dust Counting Reliability, Sep. p. 201

S

Saltzman, Bernard E.: Motor-Driven Syringes for Micro-Metering of Gases, June, p. 121
Sampling and Analysis of Industrial Process Dust, Dec. p. 283
Schmelzer, Lawrence L.: The Origin of Industrial Dusts—An X-ray Diffraction Method for Determination, Mar. p. 68
Schmidt, A. C.: A Constant Flow Suction Unit for Aerosol Sampling Work, June, p. 134
Schreiber, Thomas: A Rapid Method for the Spectrochemical Analysis of Lead in Blood, Dec. p. 296
Schrenck, J. H.: Pitfalls in Using Maximum Allowable Concentrations in Air Pollution, Sep. p. 230
Seifert, Harry: A Unique Wet Collector for Lightweight Aggregate Dusts, Dec. p. 301
Smith, Frank A.; Ph. D.: The Determination of Fluoride in Urine, Sep. p. 215
Stephens, J. F.: A Comparison of Carbon Monoxide Concentrations in Detroit and Los Angeles, Sep. p. 225
Sterner, James H., M. D.:
The Experimental Animal-Man-in Industrial Hygiene, June, p. 103
Threshold Limits—A Panel Discussion, Moderator, Mar. p. 27
Stokinger, H. E., Ph. D.: Threshold Limits—A Panel Discussion, Gases, Mar. p. 35
Sulfur Dioxide, Hygienic Guide, Dec. p. 332

T

The Experimental Animal-Man-in Industrial Hygiene, June p. 103
Threshold Limits—A Panel Discussion, Mar. p. 27
Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187
Training Industrial Hygiene Chemists in Latin America, Mar. p. 64
Treon, J. F.: The Toxicity of the Products Formed by the Thermal Decomposition of Certain Organic Substances, Sep. p. 187

U

Unique Wet Collector for Lightweight Aggregate Dusts, Dec. p. 301
Uranium-Contaminated Scrap Carbon Steel, Sale of, to Commercial Channels, Mar. p. 73

V

Van Sandt, Walter A.: The Determination of Acrolein in the Presence of Other Aldehydes, Sep. p. 221
Venable, Fred S.: An Industrial Hygiene Program—For a Benzene Extraction Plant in a Petroleum Refinery, Mar. p. 46
von Haam, E.: Problems in the Skin Testing of Industrial Compounds—Development of Polyvalent Sensitivity, Dec. p. 324

W

Waling, B. F.: Determination of Ethylene Oxide in Air—Experience in the Use of Lubatti's Method, Mar. p. 53
Walworth, H. T.: President's Page, Mar. p. 76
Weber, Herbert J.: Threshold Limits—A Panel Discussion, Metal Fumes, Mar. p. 38
Westlin, Karl: Sampling and Analysis of Industrial Process Dust, Dec. p. 283
Wheeler, D. E., Ph. D.: The Industrial Hygienist and Ear Protection, Mar. p. 40
Wiltshire, L. L.: A Constant Flow Suction Unit for Aerosol Sampling Work, June p. 134